

PCT09

RAW SEQUENCE LISTING DATE: 02/06/2002 PATENT APPLICATION: US/09/647,780A TIME: 14:14:29

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\02062002\I647780A.raw

ENTERED

	5	<110>	APPI	ICANT	: OU	IMET	et a	al.				;		•		•				
	7	<120>	TITI	E OF	INVE	OITN	N: No	ovel	meml	orane	e-bou	ınd r	neta:	llopi	rotea	ase N	EP I	I and	the	use
there				.*							,						: .			
	8		scre	ening	inh	ibit	ors (usefu	ul i	n the	erapy	7								
	10	<130>	FILE	REFE	RENC	E: P(0691	ouso,	/BAS			•			•					
C>	12	<140>	CURE	ENT A	PPLI	CATIO	он ис	JMBEI	R: U	S/09,	/647	7802	A							
C>	13	<141>	CURE	ENT F	ILIN	G DAT	re: 2	2001	-12-	13	٠.		. 1			,			•	•
				R APP							9/008	307								
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	21	<160>	NUME	ER OF	SEQ	ID 1	NOS:	29												
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	26	<211>	LENG	TH: 2	765															
				: DNA															•	
	28	<213>	ORGA	NISM:	Rat	tus 1	rattı	ıs							. '			·		
	30	<220>	FEAT	URE:									•							
	31	<221>	NAME	/KEY:	CDS									•		•				·
•	32	<222>	LOCA	TION:	(10	7) .	(2	2428) .											
•				ENCE:			٠.			•										
				agct													C	60		
	37	ctggc	cctgg	gtgc	tcag	ct gi	tgtg	cctt	c ca	ccca	gaac	cgg	ctg a	atg 9	ggg a	aag		115		
	38											•	1	Met (Gly 1	ГÀг				•
	39								•					. 1	•					
				c tca														163		
		Ser G		r Ser	Val	Gly		Met	Glu.	Arg	Ala		Asn	Cys.	Gly	Arg				
•	43		· 5				10		•		,	15		•			,			
				a ggc													•	211		
		-	rg Le	u Gly	Phe		Glu	Cys	Gly	Leu		Val-	Leu	Leu	Thr			•		
	47			- 4		25					30					35		0.50		
				g gga														259		•
		Leu I	Leu Me	t Gly		Ile	Val	Thr	Leu	7	Val	Phe	Tyr	Ser		GLY				
	51				40					45		1	٠.		50			. 207		
		_	-	g ccc				_	_	_		_						307	<i>.</i>	,
		_	In Le	u Pro		Leu	Asn	ser		Leu	His	Val	Ser		HIS	GIU				•
•	55								60					65				255	·	•
				t gta		-	_		-	-	,	_	_	_	_	-		355		
		Arg '		l Val	ьys	Arg	vai		Arg	Asp	Ser	ser		ьys	ser	Asp	-			
•	59		· ·	0	×			75					80					403		
				t acc													•	. 403		
				r Thr	Pro	ser			тте	Ата	Ата		arg	TTE	ьeu	GIN		•		
	63		85				90		L			95	· ·	·	4	+		451		
	65	aac a	itg ga	c cag	τca	aag	aaa	ccc	tgc	gac	aac	TTC	τατ	cag	tat,	get		451		

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																	•		•
			Met	Asp	Gln		_	Lys	Pro	Cys	Asp		Phe	Tyr	Gln	Tyr		,	
		100					105					110					115		400
		_											gag						499
	70	Cys	Gly	Gly	Trp	Leu	Arg	His	His	Val	Ile	Pro	Glu	Thr	Asn		Arg		
	71					120		,			125					130			
	73	tac	agc	gtc	ttt	gac	atc	ctt	cgg.	gat	gag	ctg	gag	gtc	atc	ctc	aaa		547
			-	_		_				_		_	Glu						
	75	-1-			135	<u>F</u> -			5	140					145		_		
		~~~	a+a	ata		~~+	+ 00	+ a+	at a		a = a	000	cca	act		aza	224		595
																		•	555
		GLY	vaı		GIU	Asp	Ser	ser		GIn	HIS	Arg	Pro		vaı	GIU	гаг		
	79		-	150					155					160					•
													agt					· ·	643
	82	Ala	Lys	Thr	Leu	Tyr	Arg	Ser	Cys	Met	Asn	Gln	Ser	Val	Ile	Glu	Lys		
	83		165			_		170	-		•		175	•					
		202		tct	пап	CCC	cta		aac	atc	tta	αať		ata	απa	arát	tgg		691
													Met						032
		_	ASP	ser	GIU,			ьeu	ASII	vaı	ьėп		мес	TIE	GIY	GIY			
	-	180	-				185					190					195		
	89	cct	gta	gcc	atg	gac	aag	tgg	aat	gag	acc	atg	ggc	CCC	aag	tgg	gaa		739
	90	Pro	Val	Ala	Met	Asp	Lys	Trp	Asn	Glu	Thr	Met	Gly	Pro	Lyṣ	Trp	Glu		
	91					200					205					210			
•	93	cta	αaα	caá	caq	tta	act.	ata	t.t.a	aac	tica	caq	ttc	aac	aσσ	cac	atc		787
													Phe						
		пси	GIU	Arg		шси	ALG	vai	шси			0111		11011	225		,		
	95				215					220									025
													aac						835
	98	Leu	Ile	Asp	Leu	Phe	Ile	Trp	Asn	Asp	Asp	GIn	Asn		Ser	Arg	His		
	99			230					235					240			- 11		
	101	gto	ato	: tac	ata	gac	cag	r ccc	acc	ttg	g ggc	ato	ccc	tcc	cgg	r gag	r tac		883
	102	Val	Ile	Tyr	Ile	Asp	Gln	Pro	Thr	Lei	Gly	Met	Pro	Ser	Arq	Glu	ı Tyr		
	103		245	_		-		250			-		255						
							240			at =					s cto	r ban	. ++~		931
																	, ttc		751
		-		: гуѕ	GIU	ı Asp			Arg	val	. Arg			тУ	. те	L GII	Phe		
		260					265					270					275		
	109	atg	aca	ijtca	. gtg	l dcc	act	: atg	ctg	agg	, aga	gac	ctg:	aac	ctg	ccc	ggg		979
	110	Met	Thr	Ser	Val	Ala	Thr	Met	Leu	Arg	, Arg	Asp	Leu	Asr	ı Ļeu	l Pro	Gly		
	111					280					285	,				290	)		
	113	gag	acc	gat	tta	r ata	cao	т фаф	αаа	ato	т фса	cac	r ata	cto	r cat	cto	gag		1027
				_	_												Glu		
			Till	. ASE			GŢ.	GIU	GIU	300		GII	· vai	. дес			· Oru		
	115				295	•									305				. 1075
				_			-										: gtc		1075
	118	3 Thr	·His	: Leu	. Ala	Asn	Ala	ı Thr	Val	. Pro	Gln	Glu	ı Lys	Arg	, His	Asp	Val		
	119	)		310	1				315	5.				320	)				
	121	acc	gco	ctg	tat	cac	cga	atg	ggc	cto	g gag	gag	, ctg	cag	g gaa	agg	, ttt		1123
																	, Phe		•
	123		325		- <u>,</u> -		5	330	_				335			-			
						. +++	222			- ~+-	<b>,</b> ++~				, a+-	r oto	tct		1171
				_												_			TT/T
		_		т гу	GIA	, rne		_	ını	тег	ı PNE			ASI	ı val	. Let	Ser		
		340					345					350		,	•		355	•	,
																	ggc:		1219
	130	) Ser	Val	. Gln	Val	Glu	Leu	ı Lev	Pro	Asr	ı Ğlu	Glu	ı Val	. Val	. Val	. Tyr	Gly		
																_	-		

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															•			
131					360					365					370	. ,		
133	atc	ccc	tac	ctg	gag	aat	ctt	gag	gag	atc	att	gac	gtc	ttc	cca	gca		1267
134	Ile	Pro	Tyr	Leu	Glu	Asn	Leu	Glu	Glu	Ile	Ile	Asp	Val	Phe	Pro	Ala		
135				375					380					385				
137	cag	acc	ttg	caa	aac	tac	ctg	gtg	tgg	cgc	ctg	gtg	cta	gat	cgc	atc		1315
138	Gln	Thr	Leu	Gln	Asn	Tyr	Leu	Val	Trp	Arg	Leu	Val	Leu	Asp	Arg	Ile		
139			390					395					400					
141	ggc	agc	ctg	agc	cag	aga	ttc	aaa	gaa	gcg	cgt	gtg	gac	tac	cgc	aag		1363
142	Gly	Ser	Leu	Ser	Gln	Arg	Phe	Lys	Glu	Ala	Arg	Val	Asp	Tyr	Arg	Lys		
143		405					410					415					• .	
145	gcg	ctg	tac	ggt	aca	acc	atg	gag	gaa	gta	cgc	tgg	cgg	gag	tgt	gtc		1411
146	Ala	Leu	Tyr	Gly	Thr	Thr	Met	Glu	$\operatorname{Glu}$	.Val	Arg	Trp	Arg	Glu	Cys	Val		• .
147	420					425					430					435		
149	agc	tat	gtc	aac	agc	aac	atg	gag	agţ	gcc	gtg	ggc	tcc	ctc	tac	atc		1459
150	Ser	Tyr	Val	Asn	Ser	Asn	Met	Glu	Ser	Ala	Val	Gly	Ser	Leu	Tyr	Ile		
151					440					445			• ,		450			
153	aag	cgg	gcc	ttc	tcc	aag	gac	agc	aag	agc	ata	gtc	agt	gag	ctt	atc		1507
154	Lys	Arg	Ala	Phe	Ser	Lys	Asp	Ser	Lys	Ser	Ile	Val	Ser	Glu	Leu	Ile		
155				455					460					465				
157	gaġ	aag	ata	cgg	tcc	gtġ	ttt	gtg	gat.	aac	ctg	gac	gag	ttg	aac	tgg		1555
158	Glu	Lys	Ile	Arg	Ser	Val	Phe	Val	Asp	Asn	Leu	Asp	Glu	Leu	Asn	Trp		
159			470					475		•			480					
161	atg	gat	gag	gaa	tcc	aag	aaa	aag	gcc	cag	gaa	aag	gcc	ttg	aat	atc		1603
162	Met	Asp	Glu	Glu	Ser	Lys	Lys	Lys	Ala	Gln	Glu	Lys	Ala	Leu	Asn	Ile		
163		485					490					495						
												gaa						1651
166	Arg	Glu	Gln	Ile	Gly		Pro	Asp	Tyr	Ile		Glu	Asp	Asn	Asn	Arg		•
	500					505					510		•			515		
												tca						1699
	His	Leu	Asp	Glu		Tyr	Ser	Ser	Leu	-	Phe	Ser	Glu	Asp		Tyr		: .
171					520					525					530			
												gcc						1747
	Phe	Glu	Asn	_	Leu	Gln	Asn	Leu		Asn	Asn	Ala	GIn		Ser	Leu		
175				535					540					545				
												tgg						1795
	Lys	Lys		Arg	Glu	Lys	Val		GIn	Asn	Leu	Trp		ıııe	GIY	Ala		
179			550					555					560				ř	1042
												aac						1843
	Ala		vaı	Asņ	Ala	Pne		ser	Pro	Asn	Arg	Asn		ire	vai	Pne		
183		565					570					575						1001
												aag						1891
		Ата	GTĀ	TTE	Leu		Pro	Pro	Pne	Pne	590	Lys	Asp	GIII	PIO	595		
	580					585			_+_			~~~	~~~	~~~	- + -			1020
												gga						1939
	AIG	ьeu	ASII	rne		сту	TTG	GTA	met	005	тте	Gly	птъ	GIU	610	TIIT		
191		~~~	+++	~~+	600	226	~~+	~~~	226		<b>~</b> ~ ~	224	+	~~~		2+~		1987
												aag Lys						130/
194	птъ	GIA	rne	615	ASD	ASII	GTĀ	wid	620	FIIE	Asp	пÃр	MSII	625	ASII	MEL		
エラン				013					020					0 2 3				

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197	ctg gac tgg	tgg ago	aac ttc	tcg gcd	c cgg caç	ttc cg	a cag ca	ıg tca	2035
198	Leu Asp Trp	Trp Ser	Asn Phe	Ser Ala	Arg His	Phe Ar	g Gln Gl	n Ser	
199	630			635		. 64	0		
201	cag tgt atg	att tat	cag tac	agc aad	ttc tct	tgg ga	a cta go	a gac	2083
202	Gln Cys Met	Ile Tyr	Gln Tyr	Ser Ası	he Ser	Trp Gl	u Leu Al	a Asp	
203	645		650		•	655			
205	aac cag aat	gtgaac	gga ttc	age acc	ctc aga	gag aa	c atc qc	c qac	2131
	Asn Gln Asn								
	660		665		67.0			675	
	aac ggc ggt	ata-caa		tac aac	•	cta ca	a taa ci		2179
	Asn Gly Gly				-			-	21/3
211	ASH, GIY GIY	680		TYL DY	685	10u ,01	69		•
	gaa ggc ggc		•	ata ca		220 04		-	2227
							<del>-</del>	_	2221
	Glu Gly Gly		GIN AIG		_	ASII Le	_	'I AIA	
215		695		. 700			705		0075
	cag ctt ttc								2275
	Gln Leu Phe		Asn Tyr		Val Trp			r Arg	
219	710			715	•	72			
	ccg gag ttc								2323
222	Pro Glu Phe	Ala Ile	Gln Ser	Ile Lys	Thr Asp	Val Hi	s Ser Pr	o Leu	•
223	725		730			735		•	
225	aag tac agg	gtg ctg	ggc tca	cta cac	r aac cta	cca gg	c ttc to	t gag	.2371
226	Lys Tyr Arg	Val Leu	Gly Ser	Leu Glr	Asn Leu	Pro Gl	y Phe Se	r Glu	
227	740	•	745		750	•		755	
229	gcg ttc cac	tgc cca	cga ggc	agc ccc	atg cac	cct at	g aat cg	ra tgt '	2419
	Ala Phe His								
231		760		• •	765		77	-, -	
	cgc atc tgg	tagccaa	ggc tgag	ctatge t	асаассса	c acccc	rccac		2468
	Arg Ile Trp		990 0909		. 9 - 9 9	- ,	,		
	ccagaggett		at ataac	caaca ta	gatgtgca	aattat	tacc taa	aggccac .	2528
	tggagccacc						-		2588
	gatgagtggt								2648
	ggagcagtca		-	_					2708
								-	
	gacttgagct		gc llcaa	agaag go	adadada	aadada	aaaa aaa	laggg	2765
	<210> SEQ I				*	*	**		
	<211> LENGT								•
	<212> TYPE:								
	<213> ORGAN		tus ratt	us	•				
	<400> SEQUE						•		
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256	1 .	5	•		10		1	.5	
	Cys Gly Arg	Arg Arg	Leu Gly	Phe Val	. Glu Cys	Gly Le	u Leu Va	l Leu	
259	•	20		25	, <i>,</i> .		30		
261	Leu Thr Leu	Leu Leu	Met Gly	Ala Ile	Val Thr	Leu Gl	y Val Ph	e Tyr	
262	35			40		4	5		
264	C Tl- Cl-	Lys Gln	Leu Pro	Leu Leu	Asn Sér	Leu Le	u His Va	ıl Ser	
204	Ser ite Gry								
265	Ser ite Gly	•	55	•		60			•
265	50			Lys Arc	y Val Leu		p Ser Se	er Gln	•
265				Lys Arg	Val Leu 75		p Ser Se	er Gln 80	•

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		•														
270 271	Lys	Ser	Asp	Ile	Cys 85	Thr	Thr	Pro	Ser	Cys 90	Val	Ile	Ala	Ala	Ala 95	Arg
273 274	Ile	Leu	Gln	Asn 100	Met	Asp	Gln	Ser	Lys 105	Lỳs	Pro	Cys	Asp	Asn 110	Phe	Tyr
276 277		Tyr	Ala 115	Cys	Gly	Gly	Trp	Leu 120	Arg	His	His		Ile 125	Pro	Glu	Thr
279 280	Asn	Ser 130		Tyr	Ser	Ųаl	Phe 135	Asp	Ile	Leu	Arg	Asp 140	Glu	Leu	Glu	Val
	Ile 145	Leu	Lys	Gly	Val	Leu 150		Asp	Ser	Ser	Val 155	Gln	His	Arg	Pro	Ala 160
285 286	Val	Glu	Lys	Ala	Lys 165	Thr		Tyr	Arg	Ser .170	Cys	Met	Asn	Gln	Ser 175	Val
288 289	Ile	Glu	Lys	Arg 180	Asp	Ser	Glu	Pro	Leu 185	Leu	Asn	Val	Leu	Asp 1,90		Ile
291 292	Gly	Gly	Trp 195	Pro	Val	Ala	Met	Asp 200	Lys	Trp	Asn	Glu	Thr 205	Met	Gļy	Pro
294 295	Lys	Trp 210	Glu	Leu	Glu	Arg	Gln 215	Leu	Ala	Val	Leu	Asn 220	Ser	Gln	Phe	Asn
298	225	_		٠.		230			Ile		235	_				240
301		_	•		245		**			250					255	
304	_		_	260		• _	, +	_	Ser 265		-		:	270		
307			275					280	Thr			_	285	_		
310		290				-	295				· .	300				
313	305			٠		310			Ala		315				_	320
316					325		_		Arg	330	_				335	
319		_		340					Asn 345					350		
322			355					360	Leu		*		365			-
325		370					375		Asn			380				
328	385					390			Tyr		395					400
331	_	_		_	405	•			Arg	410	- e			*	415	_
334				420		,	_		Thr 425					430	_	
337			435					440	Asn	•			445			
340		450					45,5		Lys			460		•		
342	GLU	Leu	TTE	Glu	гля	Пе	Arg	Ser	Val	Pne	va⊥	Asp	Asn	Leu	Asp	GLU

VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date